

1. Chemical Product and Company Identification

Identification of the

C9463A

preparation

Use of the preparation Inkjet printing

Manufacturer information Hewlett-Packard Company

1000 NE Circle Boulevard Corvallis, OR 97330-4239 US

Hewlett-Packard health effects line

(Toll-free within the US) 1-800-457-4209 **(Direct)** 1-503-494-7199

General information telephone number

 HP Customer Care Line
 1-800-474-6836

 (Toll-free)
 1-800-474-6836

 (Direct)
 1-208-323-2551

 Date prepared
 Apr 17, 2007

 MSDS number
 166454

Component/Substance	CAS Number	% By Weight
Photo Black ink		
Water	7732-18-5	> 70
2-pyrrolidone	616-45-5	< 7.5
Alkyldiol	Proprietary	< 5
Diethylene glycol	111-46-6	< 5
Carbon black	1333-86-4	< 5
Triethanolamine	102-71-6	< 1
Light gray ink		
Water	7732-18-5	> 80
Alkyldiol	Proprietary	< 7.5
2-pyrrolidone	616-45-5	< 5
Diethylene glycol	111-46-6	< 5
Triethanolamine	102-71-6	< 1
Carbon black	1333-86-4	< 1
Composition comments	This ink supply contains an aqueous ink formulation. This product has been evaluated using criteria specified in 29 CFR 1910.1200 (Hazard	

Communication Standard).

3. Hazards Identification

Emergency overview Contact with skin and eyes may result in irritation. Ingestion may result in nausea, vomiting

and diarrhea. May cause sensitization of susceptible persons.

Acute health effects
Skin contact

2-pyrrolidone

Contact with skin may result in irritation.

Alkyldiol

Contact with skin may result in irritation.

Triethanolamine

Contact with skin may result in irritation. May cause sensitization of susceptible persons by

skin contact.

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Eye contact

2-pyrrolidone

Contact with eyes may result in irritation.

Alkyldiol

Contact with eyes may result in irritation.

Triethanolamine

Contact with eyes may result in mild irritation.

Inhalation

2-pyrrolidone

Inhalation may result in respiratory irritation.

Alkyldiol

Inhalation may result in respiratory irritation.

Triethanolamine

Inhalation may result in respiratory irritation.

Ingestion

2-pyrrolidone

Ingestion may result in nausea, vomiting and diarrhea.

Diethylene glycol

Harmful if swallowed. May cause kidney and liver damage. May depress the central nervous

system.

Potential health effects

Routes of exposure Potential routes of overexposure to this product are skin and eye contact

Inhalation of vapor and ingestion are not expected to be significant routes of exposure for this

product under normal use conditions.

Complete toxicity data are not available for this specific formulation

Chronic health effects Carbon Black: Chronic inhalation studies performed with fine dust particles resulted in lung

tumors in animals. The IARC classification was based upon these results. IARC also concluded "there is inadequate evidence in humans for the carcinogenicity of carbon black." Inhalation of fine dust particles is not expected to occur during normal conditions of use of this ink.

Carcinogenicity Carbon black is classified by the IARC as a Group 2B carcinogen (the substance is possibly

carcinogenic to humans).

None of the other ingredients in this preparation are classified as carcinogens according to

ACGIH, EU, IARC, MAK, NTP or OSHA.

4. First Aid Measures

First aid procedures

Skin Wash affected areas thoroughly with mild soap and water. If irritation persists get medical

attention.

Eye Do not rub eyes. Immediately flush with large amounts of clean, warm water (low pressure)

for at least 15 minutes or until particles are removed. If irritation persists get medical

attention.

Inhalation Move to fresh air. If symptoms persist, get medical attention.

Ingestion If material is ingested, immediately contact a physician or poison control center.

5. Fire Fighting Measures

Flash point and method > 200 °F (> 93.3 °C); Pensky-Martens Closed Cup

Auto ignition temperature Not determined

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Hazardous combustion

products

Refer to section 10.

Extinguishing media

CO2, water, dry chemical, or foam

Unsuitable extinguishing

media

None known.

Unusual fire and explosion

hazard

Combustion generates toxic fumes of fluoride/fluorine compounds.

Special firefighting

procedures

None established.

6. Accidental Release Measures

Personal precautions Wear appropriate personal protective equipment.

Environmental precautions Do not let product enter drains. Do not flush into surface water or sanitary sewer system.

Procedures if material is released or spilled

Soak up with inert absorbent material. Slowly vacuum or sweep the material into a bag or other sealed container. Dispose of in compliance with federal, state, and local regulations. See also section 13 Disposal considerations.

7. Handling and Storage

Handling Avoid contact with skin, eyes and clothing. Remove and wash contaminated clothing before

Keep out of the reach of children. Keep away from excessive heat or cold. Store away from Storage

strong oxidizers.

8. Exposure Controls/Personal Protection

Exposure limit values Exposure limits have not been established for this product.

ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA) Carbon black 1333-86-4 3.5 mg/m3 TWA

OSHA - Final PELs - Time Weighted Averages (TWAs)

Carbon black 1333-86-4 3.5 mg/m3 TWA ACGIH - Threshold Limits Values - Time Weighted Averages (TLV-TWA) Triethanolamine 102-71-6 5 mg/m3 TWA

Personal protective equipment

General Use personal protective equipment to minimize exposure to skin and eye. Handle in accordance with good industrial hygiene and safety practice. **Hygiene measures**

Exposure guidelines Use in a well ventilated area.

9. Physical & Chemical Properties

pН 9.3 - 9.4

Vapor pressure Not determined **Boiling point** Not determined **Solubility** Soluble in water

Specific gravity 1 - 1.1

> 200 °F (> 93.3 °C) Flash point

Vapor density > 1 (air=1.0)**Evaporation rate** Not determined **Flammability** Not determined

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Oxidizing properties Not determined Color black/light gray

10. Chemical Stability & Reactivity Information

Stability Stable under recommended storage conditions.

Hazardous polymerization Will not occur.

Hazardous decomposition

products

Upon decomposition, this product may yield gaseous nitrogen oxides, carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons. hydrogen fluoride. fluorinated

hydrocarbons

Incompatibility Incompatible with strong bases and oxidizing agents.

11. Toxicological Information

This ink formulation has not been tested for toxicological effects.

Refer to Section 3 for potential health effects and Section 4 for first aid measures.

Carcinogenicity

OSHA - Hazard Communication Carcinogens

1333-86-4 Carbon black Present

Symptoms and target organs

NIOSH - Pocket Guide - Target Organs

Carbon black 1333-86-4 respiratory system, eyes (lymphatic cancer in presence of PAHs)

12. ECOLOGICAL INFORMATION

Aquatic toxicity

Light gray ink

LC50/96h/Fathead minnows => 750 mg/L

Photo Black ink

LC50/96h/Fathead minnows => 750 mg/L

13. Disposal Considerations

Dispose of in compliance with federal, state, and local regulations. **Disposal instructions**

> HP's Planet Partners (trademark) supplies recycling program enables simple, convenient recycling of HP original inkiet and LaserJet supplies. For more information and to determine if

this service is available in your location, please visit http://www.hp.com/recycle.

14. Transportation Information

General Not a regulated article under United States DOT, IATA, ADR, IMDG, or RID.

IATA

Proper shipping name Not Applicable

Not applicable

Hazard class

None

Packaging exceptions Identification number

None

(UN)

Packing group N/A

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15. Regulatory Information

International regulations All chemical substances in this HP product have been notified or are exempt from notification

under chemical substances notification laws in the following countries: US (TSCA), EU (EINECS/ELINCS), Switzerland, Canada (DSL/NDSL), Australia, Japan, Philippines, South

Korea, New Zealand, and China.

US federal regulations

US TSCA 12(b): Does not contain listed chemicals.

0

HMIS ratings

Health: Flammability: 2 Physical hazard: 0

NFPA ratings

Health: 1 Flammability: 2

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Instability:

Section 302 extremely

hazardous substance

Nο

Section 311 hazardous

chemical

Yes

Hazard categories Immediate Hazard - No

Delayed Hazard - No Fire Hazard - Yes Pressure Hazard - No Reactivity Hazard - No

16. Other Information

Other information This MSDS was prepared in accordance with USA OSHA Hazard Communications regulation

(29 CFR 1910.1200).

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Revision 1

Replaces sheet dated Aug 17 2006 8:32AM

Disclaimer This Safety Data Sheet document is provided without charge to customers of Hewlett-Packard

> Company. Data is the most current known to Hewlett-Packard Company at the time of preparation of this document and is believed to be accurate. It should not be construed as guaranteeing specific properties of the products as described or suitability for a particular application. This document was prepared to the requirements of the jurisdiction specified in

Section 1 above and may not meet regulatory requirements in other countries.

MSDS sections updated 3. Hazards Identification: Carcinogenicity

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Explanation of abbreviations

ACGIH American Conference of Governmental Industrial Hygienists

CAS Chemical Abstracts Service

CERCLA Comprehensive Environmental Response Compensation and Liability Act

CFR Code of Federal Regulations

COC Cleveland Open Cup

DOT Department of Transportation

Emergency Planning and Community Right-to-Know Act (aka SARA) **EPCRA**

IARC International Agency for Research on Cancer

NIOSH National Institute for Occupational Safety and Health

NTP National Toxicology Program

OSHA Occupational Safety and Health Administration

PEL Permissible Exposure Limit

RCRA Resource Conservation and Recovery Act

REC Recommended

REL Recommended Exposure Limit

SARA Superfund Amendments and Reauthorization Act of 1986

STEL Short-Term Exposure Limit

TCLP Toxicity Characteristics Leaching Procedure

TLV Threshold Limit Value

TSCA Toxic Substances Control Act VOC Volatile Organic Compounds

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